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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)

REINDL et al.)

Group Art Unit: Unsigned

Serial No. 09/762,045)

Examiner: Unknown

Filed: February 1, 2001)

For: DNA SEQUENCE CODING FOR A 1-DEOXY-D-XYLULOSE-5-PHOSPHATE
SYNTHASE AND OVERPRODUCTION THEREOF IN PLANTS

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
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Hon. Commissioner of Patents
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Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

This subject Information Disclosure Statement is submitted in connection with applicants' continuing duty of disclosure under 37 CFR 1.56.

Listing of Relevant Documents

The relevant documents are listed in the attached Form PTO-1449.

Remarks

The listed references are discussed on pages 1, 4, 5, and 7 of the specification and were brought to applicants' attention by the attached International Search Report.

U.S. 5,912,169 is the English equivalent of EP 0 723 017 which was brought to applicants' attention by the attached International Search report.

DE 197 52 700 is not available in English, however an English language abstract is supplied herewith which should meet the concise explanation requirement.

WO 99/52938 is not available in English, however an English language abstract is contained on the front page of the reference which should meet the concise explanation requirement.

Respectfully submitted,
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Form PTO-1449

Document Number
0817/00006/MecSheet ____ of ____
Application Number
09/762,045INFORMATION DISCLOSURE
IN AN APPLICATIONApplicant
REINDL et al.

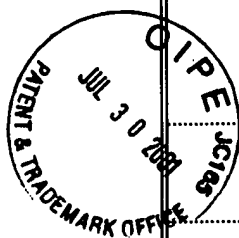
Filing Date

Group Art Unit

February 1, 2001 Unassigned

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS						
Exam. Init.	Document Number	Date	Name	Class	Sub-Class	Fing Date
	5, 912,169	6/15/99	Schmidt et al.	435	320	
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Sub-Class	Fing Date
	WO 98/06862	2/19/98	PCT			
	WO 97/27285	7/31/97	PCT			
	EP 0 723 017	7/24/96	Europe			
	DE 298 00 547	4/8/99	Germany			
	DE 197 52 700	6/2/99	Germany			
	WO 99/52938	10/21/99	Germany			
	WO 99/11757	3/11/99	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Denoya et al. "A <i>Streptomyces avermitilis</i> Gene Encoding a 4-Hydroxyphenylpyruvic Acid Dioxygenase-Like Protein That Directs the Production of Homogenistic Acid and an Ochronotic Pigment in <i>Escherichia coli</i> " Journal of Bacteriology Vol. 176 No. 17 (1994) pgs 5312-5319					
	Howles et al. "Overexpression of L-Phenylalanine Ammonia-Lyase in Transgenic Tobacco Plants Reveals Control Points for Flux into Phenylpropanoid Biosynthesis" Plant Physiol. Vol. 112 (1996) pgs 1617-1624					
	Bate et al. "Quantitative Relationship Between Phenylalanine Ammonia-Lyase Levels and Phenylpropanoid Accumulation in Transgenic Tobacco Identifies a Rate-Determining Step in Natural Product Synthesis" Proc. Natl. Acad. Sci. Vol. 91 (1994) pgs 7608-7612					
	Fray et al. "Constitutive Expression of a Fruit Phytoene Synthase Gene in Transgenic Tomatoes Causes Dwarfism by Redirecting Metabolites from the Gibberellin Pathway" The Plant Journal Vol. 8 (1995) pgs 693-701					



Fray et al. "Identification and Genetic Analysis of Normal and Mutant Phytoene Synthase Genes of Tomato by Sequencing, complementation and Co-Suppression" Plant Molecular Biology Vol. 22 (1993) pgs 589-602

Bach et al. "Inhibition by Mevinolin of Plant Growth, Sterol Formation and Pigment Accumulation" Physiol. Plant (1983) pgs 50-60

Lichtenthaller et al. "Biosynthesis of Isoprenoids in Higher Plant Chloroplasts Proceeds via a Mevalonate-Independent Pathway" FEBS Letters 400 (1997) pgs 271-274

Lange et al. "A Family of Transketolases that directs Isoprenoid Biosynthesis via a mevalonate -Independent Pathway" Proc. Natl. Acad. Sci Vol. 95 (1998) pgs 2100-2104

Arigoni et al. "Terpenoid biosynthesis from 1-deoxy-D-xylulose in Higher Plants by Intramolecular Skeletal Rearrangement" Proc. Nat'l Acad Sci. Vol. 94 (1997) pgs 10600-10605

Schwender et al. "Incorporation of 1-deoxy-D-xylulose into Isoprene and Phytol by Higher Plants and Algae" FEBS Letters 414 (1997) pgs 129-134

Ullmann's Encyclopedia of Industrial Chemistry Vol. A27 pgs 478-488

Lange et al. "A Family of Transketolases that Directs Isoprenoid Biosynthesis via a Mevalonate-independent pathway" Proc. Nat's Acad. Sci. Vol. 95, (1998) pgs 2100-2104

Mandel et al. "CLA1, A Novel Gene Required for Chloroplast Development, is Highly Conserved in Evolution" The Plant Journal Vol. 9 (1996) pgs 649-658

Lois et al. "Cloning and Characterization of a Gene From *Escherichia coli* Coding a Transketolase-like enzyme that catalyzes the synthesis of D-1-deoxyxylulose 5-phosphate, a common precursor for isoprenoid, thiamin, and pyridoxyl biosynthesis" Proc. Nat'l. Acad. Sci. Vol. 95 (1998) pgs 2105-2110

Sprenger et al. "Identification of a Thaimin-dependent synthase in *Escherichia coli* required for the formation of the 1-deoxy - D-xylulose 5-phosphate precursor to isoprenoids, thiamin, and pyridoxol" Proc. Nat'l Acad Sci Vol. 94 (1997) pgs 12857-12862

Keller et al. "Metabolic Compartmentation of Plastid Prenylipid Biosynthesis" Eur. J. Biochem Vol. 251 (1998) pgs 413-417

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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